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=> s thielavia
L1 745 THIELAVIA

=> s l1 (5a)(endoglucanase or cellulase)
L2 52 L1 (5A)(ENDOGLUCANASE OR CELLULASE)

=> s l1 (10a)(endoglucanase or cellulase)
L3 69 L1 (10A)(ENDOGLUCANASE OR CELLULASE)

=> dup rem l3
PROCESSING COMPLETED FOR L3
L4 40 DUP REM L3 (29 DUPLICATES REMOVED)

=> d 1-10

L4 ANSWER 1 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 2004:308522 HCAPLUS
DN 140:333598
TI Protein and cDNA sequences of glycoside hydrolase 61 family from Thielavia
terrestris, Coprinus cinereus and Humicola insolens and their uses in
preparing edible products
IN Schnorr, Kirk Matthew; Landvik, Sara; Spendler, Tina; Christensen, Lars
Lehmann Hylling
PA Novozymes A/S, Den.
SO PCT Int. Appl., 59 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004031378	A2	20040415	WO 2003-DK646	20031001
	WO 2004031378	A3	20040506		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
PRAI	DK 2002-1459	A	20021001		
	DK 2003-1096	A	20030722		

L4 ANSWER 2 OF 40 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
DUPLICATE 1
AN 1998-06599 BIOTECHDS
TI New cellulase enzyme variants;
enzyme engineering
AU Andersen K V; Schyelele M; Christiansen L; Damgaard B
PA Novo-Nordisk
LO Bagsvaerd, Denmark.

PI WO 9812307 26 Mar 1998
AI WO 1997-DK393 17 Sep 1997
PRAI DK 1996-1013 17 Sep 1996
DT Patent
LA English
OS WPI: 1998-217251 [19]

L4 ANSWER 3 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 1997:159095 HCAPLUS
TI Characterization of fungal cellulases for fiber modification.
AU Schulein, M.; Lange, L.; Lassen, S. F.; Kaupinen, M. S.; Andersen, L. N.;
Klysner, S.; Nielsen, J. B.
CS Novo Nordisk A/S, Bagsvaerd, DK 2880, Den.
SO Book of Abstracts, 213th ACS National Meeting, San Francisco, April 13-17
(1997), CELL-052 Publisher: American Chemical Society, Washington, D. C.
CODEN: 64A0AA
DT Conference; Meeting Abstract
LA English

L4 ANSWER 4 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 1996:718350 HCAPLUS
DN 126:3771
TI Mol. screening and PCR cloning of novel endoglucanases from fungi for use
as detergents, textile treatment, and paper pulp processing
IN Schulein, Martin; Andersen, Lene Nonboe; Lassen, Soeren Flensted;
Kauppinen, Markus Sakari; Lange, Lene; Nielsen, Ruby Ilum; Ihara, Michiko;
Takagi, Shinobu
PA Novo Nordisk A/s, Den.
SO PCT Int. Appl., 406 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9629397	A1	19960926	WO 1996-DK105	19960318
	W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI				
	RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN				
	CA 2214116	AA	19960926	CA 1996-2214116	19960318
	AU 9649394	A1	19961008	AU 1996-49394	19960318
	AU 715423	B2	20000203		
	EP 815209	A1	19980107	EP 1996-905762	19960318
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI				
	CN 1182451	A	19980520	CN 1996-193494	19960318
	BR 9607646	A	19980616	BR 1996-7646	19960318
	JP 11502701	T2	19990309	JP 1996-527993	19960318
	JP 3360830	B2	20030107		
	NZ 303162	A	20000128	NZ 1996-303162	19960318
	US 6001639	A	19991214	US 1996-651136	19960521
	US 6387690	B1	20020514	US 1999-229911	19990113
	US 2003054539	A1	20030320	US 2001-7521	20011210
PRAI	DK 1995-272	A	19950317		
	DK 1995-885	A	19950808		
	DK 1995-886	A	19950808		
	DK 1995-887	A	19950808		
	DK 1995-888	A	19950808		
	DK 1996-137	A	19960212		
	WO 1996-DK105	W	19960318		
	US 1996-651136	A3	19960521		
	US 1999-229911	A1	19990113		
OS	MARPAT 126:3771				

L4 ANSWER 5 OF 40 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE 2
AN 95:190979 SCISEARCH
GA The Genuine Article (R) Number: QL109
TI ISOLATION AND PROPERTIES OF A THERMOSTABLE ***ENDOGLUCANASE*** FROM A
THERMOPHILIC MUTANT STRAIN OF ***THIELAVIA*** -TERRESTRIS
AU KVESITADZE E G (Reprint); LOMITASHVILI T B; KHUTSISHVILI M P; LAMED R;
BAYER E A
CS GEORGIAN ACAD SCI, INST PLANT BIOCHEM, TBILISI 380059, REP OF GEORGIA
(Reprint); TEL AVIV UNIV, GEORGE S WISE FAC LIFE SCI, DEPT MOLEC MIROBIOL
& BIOTECHNOL, RAMAT AVIV, ISRAEL; WEIZMANN INST SCI, DEPT BIOPHYS,

IL-76100 REHOVOT, ISRAEL
 CYA- REPUBLIC OF GEORGIA; ISRAEL
 SO APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY, (FEB 1995) Vol. 50, No. 2, pp. 137-143.
 ISSN: 0273-2289.
 DT Article; Journal
 FS LIFE; AGRI
 LA ENGLISH
 REC Reference Count: 20
 ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L4 ANSWER 6 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 1995:738746 HCAPLUS
 DN 123:136726
 TI Production and characterization of ***cellulases*** and xylanases from the thermophilic ascomycete ***Thielavia*** terrestris 255b
 AU Gilbert, Michel
 CS Univ. of Ottawa, Ottawa, ON, Can.
 SO (1992) 243 pp. Avail.: Univ. Microfilms Int., Order No. DANN93618
 From: Diss. Abstr. Int. B 1995, 56(1), 216
 DT Dissertation
 LA English

L4 ANSWER 7 OF 40 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE 3
 AN 92:174 SCISEARCH
 GA The Genuine Article (R) Number: GQ108
 TI CHARACTERIZATION OF THE ENZYMES PRESENT IN THE ***CELLULASE*** SYSTEM OF ***THIELAVIA*** -TERRESTRIS 255B
 AU GILBERT M (Reprint); BREUIL C; SADDLER J N
 CS FORINTEK CANADA CORP, DEPT BIOTECHNOL & CHEM, 800 MONTREAL RD, OTTAWA K1G 3Z5, ONTARIO, CANADA (Reprint)
 CYA CANADA
 SO BIORESOURCE TECHNOLOGY, (1992) Vol. 39, No. 2, pp. 147-153.
 ISSN: 0960-8524.
 DT Article; Journal
 FS AGRI
 LA ENGLISH
 REC Reference Count: 13
 ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L4 ANSWER 8 OF 40 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
 AN 1992-00488 BIOTECHDS
 TI Characterization of the enzymes present in the ***cellulase*** system of ***Thielavia*** terrestris 255B; characterization of cellulase complex produced by fermentation on culture medium with glucose, cellobiose, acid-swollen cellulose, solka Floc BW300 or oat-spelt xylan C-source
 AU Gilbert M; Breuil C; Saddler J N
 CS Forintek-Canada
 LO Biotechnology and Chemistry Department, Forintek Canada Corporation, 800 Montreal Road, Ottawa, Canada K1G 3Z5.
 SO Bioresource Technol.; (1992) 39, 2, 147-54
 DT Journal
 LA English

L4 ANSWER 9 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 1992:506880 HCAPLUS
 DN 117:106880
 TI Characterization of the enzymes present in the ***cellulase*** system of ***Thielavia*** terrestris 255B
 AU Gilbert, Michel; Breuil, Colette; Saddler, J. N.
 CS Biotechnol. Chem. Dep., Forintek Canada Corp., Ottawa, ON, K1G 3Z5, Can.
 SO Bioresource Technology (1991), Volume Date 1992, 39(2), 147-54
 CODEN: BIRTEB; ISSN: 0960-8524
 DT Journal
 LA English

L4 ANSWER 10 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 1990:154151 HCAPLUS
 DN 112:154151
 TI The ***cellulase*** complex of the thermophilic ascomycete, ***Thielavia*** terrestris: production, mutation, and characterization of the component enzymes
 AU Zitomer, Stephanie W.
 CS UMDNJ, Rutgers, State Univ., New Brunswick, NJ, USA
 SO (1989) 314 pp. Avail.: Univ. Microfilms Int., Order No. DA8923634

From: Diss. Abstr. Int. B 1990, 50(7), 2762-3
DT Dissertation
LA English

=> d 5

L4 ANSWER 5 OF 40 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE 2
AN 95:190979 SCISEARCH
GA The Genuine Article (R) Number: QL109
TI ISOLATION AND PROPERTIES OF A THERMOSTABLE ****ENDOGLUCANASE**** FROM A
THERMOPHILIC MUTANT STRAIN OF ****THIELAVIA**** -TERRESTRIS
AU KVESITADZE E G (Reprint); LOMITASHVILI T B; KHUTSISHVILI M P; LAMED R;
BAYER E A
CS GEORGIAN ACAD SCI, INST PLANT BIOCHEM, TBILISI 380059, REP OF GEORGIA
(Reprint); TEL AVIV UNIV, GEORGE S WISE FAC LIFE SCI, DEPT MOLEC MIROBIOL
& BIOTECHNOL, RAMAT AVIV, ISRAEL; WEIZMANN INST SCI, DEPT BIOPHYS,
IL-76100 REHOVOT, ISRAEL
CYA REPUBLIC OF GEORGIA; ISRAEL
SO APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY, (FEB 1995) Vol. 50, No. 2, pp.
137-143.
ISSN: 0273-2289.
DT Article; Journal
FS LIFE; AGRI
LA ENGLISH
REC Reference Count: 20
ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

=> d 5 ab

L4 ANSWER 5 OF 40 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE 2
AB A heat-stable enzyme was isolated from the ****cellulase**** complex
of a thermophilic strain of the micromycete ****Thielavia****
terrestris. The purified enzyme exhibited both ****endoglucanase**** and
xylanase activities and had a mol mass of 69,000 Daltons and an
isoelectric point of 6.4. When the cells were grown at 48 degrees C, the
initial activity of the purified enzyme using carboxymethylcellulose as a
substrate was 150 nkat/mg and the Michaelis constant was 6.6 g/L. The heat
stability of the enzyme was high, losing only 20% of the initial activity
after a 6-h incubation at 65 degrees C. When cultures were grown on
microcrystalline cellulose and xylose was added after 48 h of growth,
endoglucanase and xylanase activities were more than doubled. Similar
increases in these activities were observed by growing the cultures on
straw.

=> d 11-20

L4 ANSWER 11 OF 40 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AN 1992:262244 BIOSIS
DN PREV199293138569; BA93:138569
TI PRODUCTION OF PECTOLYTIC AND CELLULOLYTIC ENZYMES BY THIELAVIA-BASICOLA
IN-VITRO.
AU SATTAR A [Reprint author]; ALAM M
CS CENTRAL INST MED AROMATIC PLANTS, P B NO 1, P O RAM SAGAR MISRA NAGAR,
LUCKNOW-226016
SO Indian Journal of Plant Pathology, (1989) Vol. 7, No. 2, pp. 123-126.
ISSN: 0970-342X.
DT Article
FS BA
LA ENGLISH
ED Entered STN: 23 May 1992
Last Updated on STN: 23 May 1992

L4 ANSWER 12 OF 40 LIFESCI COPYRIGHT 2004 CSA on STN DUPLICATE 4
AN 87:67877 LIFESCI
TI Cellulase screening by iodine staining: An artefact.
AU Zitomer, S.W.; Eveleigh, D.E.
CS Dep. Biochem. and Microbiol., Cook Coll., Rutgers Univ., New Brunswick, NJ
08903, USA
SO ENZYME MICROB. TECHNOL., (1987) Vol. 9, no. 4, pp. 214-216.
DT Journal
FS K; A; W
LA English
SL English

L4 ANSWER 13 OF 40 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
AN 1988-06754 BIOTECHDS
TI A comparison of the thermostability of cellulases from various
thermophilic fungi;
Thielavia terrestris, Aspergillus terreus, Thermoascus aurantiacus and
Myceliophthora fergusii
AU Wojtczak G; Breuil C; Yamada J; Saddler J N
CS Forintek-Canada
LO Biotechnology and Chemistry Department, Forintek Canada Corp., 800
Montreal Road, Ottawa, Ontario K1G 3Z5, Canada.
SO Appl.Microbiol.Biotechnol.; (1987) 27, 1, 82-87
CODEN: EJABDD
DT Journal
LA English

L4 ANSWER 14 OF 40 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
DUPLICATE 5
AN 1986-08770 BIOTECHDS
TI Production of cellulase;
by Trichoderma reesei Thielavia terrestris or Sporotrichum
cellulophilum on L-sorbose culture medium
PA Shin-Nenryoyu-Develop.
PI JP 61078384 21 Apr 1986
AI JP 1984-202372 27 Sep 1984
PRAI JP 1984-202372 27 Sep 1984
DT Patent
LA Japanese
OS WPI: 1986-141763 [22]

L4 ANSWER 15 OF 40 LIFESCI COPYRIGHT 2004 CSA on STN DUPLICATE 6
AN 86:22589 LIFESCI
TI Production and localization of ***cellulases*** and beta -glucosidase
from the thermophilic fungus ***Thielavia*** terrestris .
AU Breuil, C.; Wojtczak, G.; Saddler, J.N.
CS Biotechnol. and Chem. Dep., Forintek Canada Corp., 800 Montreal Rd.,
Ottawa, Ont. K1G 3Z5, Canada
SO BIOTECHNOL. LETT., (1986) vol. 8, no. 9, pp. 673-676.
DT Journal
FS K; A; W
LA English
SL English

L4 ANSWER 16 OF 40 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
AN 86:549304 SCISEARCH
GA The Genuine Article (R) Number: E1818
TI PRODUCTION AND LOCALIZATION OF ***CELLULASES*** AND BETA-GLUCOSIDASE
FROM THE THERMOPHILIC FUNGUS ***THIELAVIA*** -TERRESTRIS
AU BREUIL C (Reprint); WOJTCZAK G; SADDLER J N
CS FORINTEK CANADA CORP, DEPT BIOTECHNOL & CHEM, 800 MONTREAL RD, OTTAWA K1G
3Z5, ONTARIO, CANADA (Reprint)
CYA CANADA
SO BIOTECHNOLOGY LETTERS, (1986) Vol. 8, No. 9, pp. 673-676.
DT Article; Journal
FS LIFE; AGRI
LA ENGLISH
REC Reference Count: 12

L4 ANSWER 17 OF 40 LIFESCI COPYRIGHT 2004 CSA on STN DUPLICATE 7
AN 86:59366 LIFESCI
TI Optimization of fermentation conditions for thermostable ***cellulase***
production by ***Thielavia*** terrestris .
AU Margaritis, A.; Merchant, R.F.
CS Dep. Chem. and Biochem. Eng., Univ. Western Ontario, London, Ont. N6A 5B9,
Canada
SO J. IND. MICROBIOL., (1986) vol. 1, no. 3, pp. 149-156.
DT Journal
FS K; A; W
LA English
SL English

L4 ANSWER 18 OF 40 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
AN 87:260775 SCISEARCH
GA The Genuine Article (R) Number: H0434
TI OPTIMIZATION OF FERMENTATION CONDITIONS FOR THERMOSTABLE ***CELLULASE***
PRODUCTION BY ***THIELAVIA*** -TERRESTRIS

AU MARGARITIS A (Reprint); MERCHANT R F
CS UNIV WESTERN ONTARIO, DEPT CHEM & BIOCHEM ENGN, LONDON N6A 5B9, ONTARIO,
CANADA (Reprint)
CYA CANADA
SO JOURNAL OF INDUSTRIAL MICROBIOLOGY, (1986) Vol. 1, No. 3, pp. 149-156.
DT Article; Journal
FS AGRI
LA ENGLISH
REC No References

L4 ANSWER 19 OF 40 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
AN 1988-00512 BIOTECHDS
TI A comparison of the thermostability of cellulases from different
thermophilic fungi;
Thielavia terrestris, Sporotrichum thermophile, Aspergillus terreus,
Thermoascus aurantiacus and Humicola sp. etc. (conference abstract)
AU Breuil C; Wojtczak G; Saddler J N
CS Forintek-Canada
LO Biotechnology and Chemistry Department, Forintek Canada Corp., 800
Montreal Road, Ottawa, Ontario, K1G 3Z5, Canada.
SO Abstr.Can.Soc.Microbiol.; (1986) 36 Meet., 69
DT Journal
LA English

L4 ANSWER 20 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 1986:183081 HCAPLUS
DN 104:183081
TI ***Cellulase*** production by species of Acrophialophora and
Thielavia
AU Sandhu, D. K.; Arora, D. S.
CS Dep. Biol., Guru Nank Dev Univ., Amritsar, 143 005, India
SO Indian Phytopathology (1985), 38(2), 267-9
CODEN: IPHYAU; ISSN: 0367-973X
DT Journal
LA English

=> d 21-30

L4 ANSWER 21 OF 40 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
AN 1985-11651 BIOTECHDS
TI Effect of cultivation conditions of protein formation by the
Chrysosporium sp. and Thielavia sp. micromycetes;
for single cell protein production
AU Bilai T I; Shabunina T I; Slyusarenko T P
LO Institute of Microbiology and Virology, Academy of Sciences of the
Ukrainian SSR, Kiev, USSR.
SO Mikrobiol.Zh.; (1985) 47, 4, 92-94
CODEN: MZHUDX
DT Journal
LA Russian

L4 ANSWER 22 OF 40 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
DUPLICATE 8
AN 1986-01019 BIOTECHDS
TI Growth and cellulose-lytic activity of thermophilic fungi in the media
with nonspecific substrates;
cellulase complex from ***Thielavia*** Malbranchea
pulchella Corynascus sepedonium and Trichoderma lignorum
AU Bilai T I; Musich E G; Syrchin S A
LO Institute of Microbiology and Virology, Academy of Sciences of the
Ukrainian SSR, Kiev, USSR.
SO Mikrobiol.Zh.; (1985) 47, 5, 62-68
CODEN: MZHUDX
DT Journal
LA Russian

L4 ANSWER 23 OF 40 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 9
AN 1986:146215 BIOSIS
DN PREV198681056631; BA81:56631
TI COMPONENT COMPOSITION OF THE CELLULASE COMPLEX IN CERTAIN SPECIES OF
THERMOPHILIC FUNGI.
AU BILAI T I [Reprint author]; MUSICH E G; SYRCHIN S A
CS INST MICROBIOL VIROL, ACAD SCI UKR SSR, KIEV, USSR
SO Mikrobiologicheskii Zhurnal (Kiev), (1985) Vol. 47, No. 5, pp. 57-62.

CODEN: MZHUDX. ISSN: 0201-8462.
DT Article
FS BA
LA RUSSIAN
ED Entered STN: 25 Apr 1986
Last Updated on STN: 25 Apr 1986

L4 ANSWER 24 OF 40 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AN 1987:70830 BIOSIS
DN PREV198783039156; BA83:39156
TI CELLULOLYTIC ACTIVITY OF THERMOPHILOUS FUNGI ISOLATED FROM SOILS.
AU SANDHU D K [Reprint author]; BAGGA P S; SINGH S
CS DEP OF BIOL, GURU NANAK DEV UNIV, AMRITSAR-143 005, INDIA
SO Kavaka, (1985) Vol. 13, No. 1, pp. 21-32.
ISSN: 0379-5179.

DT Article
FS BA
LA ENGLISH
ED Entered STN: 24 Jan 1987
Last Updated on STN: 24 Jan 1987

L4 ANSWER 25 OF 40 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AN 1985:54884 BIOSIS
DN PREV198528054884; BR28:54884
TI PRODUCTION AND THERMAL STABILITY CHARACTERISTICS OF ***CELLULASE***
AND XYLANASE ENZYMES FROM ***THIELAVIA*** -TERRESTRIS.
AU MARGARITIS A [Reprint author]; MERCHANT R
CS CHEMICAL AND BIOCHEMICAL ENGINEERING, FAC ENGINEERING SCI, UNIV WESTERN
ONTARIO, LONDON, ONTARIO, CANADA N6A 5B9
SO Biotechnol. Bioeng. Symp., (1984) pp. 299-314. SCOTT, C. D. (ED.).
BIOTECHNOLOGY AND BIOENGINEERING SYMPOSIUM, NO. 13. 5TH SYMPOSIUM ON
BIOTECHNOLOGY FOR FUELS AND CHEMICALS; GATLINBURG, TENN., USA, MAY 10-13,
1983. VIII+672P. JOHN WILEY AND SONS, INC.: NEW YORK, N.Y., USA. ILLUS.
PAPER.
Publisher: Series: Biotechnology and Bioengineering Symposium.
CODEN: BIBSBR. ISSN: 0572-6565. ISBN: 0-471-88173-2.

DT Book
FS Conference; (Meeting)
LA BR
ENGLISH

L4 ANSWER 26 OF 40 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
AN DUPLICATE 10
1984-06370 BIOTECHDS
TI Production and thermal stability characteristics of ***cellulase***
and xylanase enzymes from ***Thielavia*** terrestris;
wheat straw hydrolysis analysis etc. (conference paper)
AU Margaritis A; Merchant R
LO Chemical and Biochemical Engineering, Faculty of Engineering Science, The
University of Western Ontario, London, Ontario, Canada N6A 5B9.
SO Biotechnol. Bioeng.; (1984) Symp.13, 299-314
CODEN: BIBIAU
DT Journal
LA English

L4 ANSWER 27 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 1984:205494 HCAPLUS
DN 100:205494
TI Comparative study of cellulases and hemicellulases from four fungi:
mesophiles Trichoderma reesei and Penicillium sp. and thermophiles
Thielavia terrestris and Sporotrichum cellulophilum
AU Durand, Henri; Soucaille, Philippe; Tiraby, Gerard
CS Lab. Rech., CAYLA, Toulouse, 31400, Fr.
SO Enzyme and Microbial Technology (1984), 6(4), 175-80
CODEN: EMTED2; ISSN: 0141-0229
DT Journal
LA English

L4 ANSWER 28 OF 40 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
AN 1984-04353 BIOTECHDS
TI Detection and differentiation of cellulase components in polyacrylamide
gels;
Microbispora bispora Penicillium verruculosum Thielavia terrestris and
Trichoderma reesei (conference abstract)
AU Bartley T D; Eveleigh D E; Murphy-Holland K; Frein M; Zitomer S
LO Dept. Biochem., Rutgers University, New Brunswick, NJ., U.S.A.

SO Abstr.Annu.Meet.Am.Soc.Microbiol; (1984) 84 Meet., 171
DT Journal
LA English

L4 ANSWER 29 OF 40 LIFESCI COPYRIGHT 2004 CSA on STN
AN 84:8983 LIFESCI
TI Production and thermal stability characteristics of ***cellulase***
and xylanase enzymes from ***Thielavia*** terrestris .
FIFTH SYMPOSIUM ON BIOTECHNOLOGY FOR FUELS AND CHEMICALS.
AU Margaritis, A.; Merchant, R.; Scott, C.D. [editor]
CS Chem. and Biochem. Eng., Fac. Eng. Sci., Univ. Western Ontario. London,
Ont., Canada N6A 5B9
SO BIOTECHNOL. BIOENG. SYMP., (1984) pp. 299-314.
Meeting Info.: 5. Symposium on Biotechnology for Fuels and Chemicals.
Gatlinburg, TN (USA). 10-13 May 1983.
ISBN: 0-471-88173-2.
DT Book
TC Conference
FS W; A; K
LA English
SL English

L4 ANSWER 30 OF 40 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 11
AN 1985:292698 BIOSIS
DN PREV198579072694; BA79:72694
TI ENZYMOLOGICAL STUDIES ON LITTER-COLONIZING ASCOMYCETES.
AU ANEJA K R [Reprint author]
CS DEPARTMENT OF BOTANY, KURUKSHETRA UNIVERSITY, KURUKSHETRA
SO Proceedings of the Indian National Science Academy Part B Biological
Sciences, (1983) Vol. 49, No. 6, pp. 735-739.
CODEN: PIBSBB. ISSN: 0073-6600.
DT Article
FS BA
LA ENGLISH

=> d 31-40

L4 ANSWER 31 OF 40 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
AN 84:205854 SCISEARCH
GA The Genuine Article (R) Number: SM639
TI PRODUCTION AND THERMAL-STABILITY CHARACTERISTICS OF ***CELLULASE***
AND XYLANASE ENZYMES FROM ***THIELAVIA*** -TERRESTRIS
AU MARGARITIS A (Reprint); MERCHANT R
CS UNIV WESTERN ONTARIO, FAC ENGN SCI, LONDON N6A 5B9, ONTARIO, CANADA
(Reprint)
CYA CANADA
SO BIOTECHNOLOGY AND BIOENGINEERING, (1983) , pp. 299-314.
DT Article; Journal
FS LIFE; ENGI
LA ENGLISH
REC Reference Count: 40

L4 ANSWER 32 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 1983:195056 HCAPLUS
DN 98:195056
TI Regulatory mechanisms in Thielavia terrestris
AU Tuse, D.; Hokama, L.
CS Biotechnol. Res. Dep., SRI Int., Menlo Park, CA, USA
SO Report (1982), DOE/ER/10697-T1; Order No. DE83002858, 37 pp. Avail.: NTIS
From: Energy Res. Abstr. 1983, 8(6), Abstr. No. 13134
DT Report
LA English

L4 ANSWER 33 OF 40 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
DUPLICATE 12
AN 1982-02900 BIOTECHDS
TI A method for determining the transforming activity of cellulases from
Micromycetes;
based on the increase in protein nitrogen of the mycelium after growth
on a culture medium containing cellulose as sole C-source
AU Bilai T I; Musich E G
LO Institute of Microbiology and virology, Academy of Sciences of the
Ukranian SSR, USSR.
SO Mikrobiol.zh.; (1982) 44, 75-76

DT CODEN: MZHUDX
LA Journal
LA Russian

L4 ANSWER 34 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 1981:440816 HCAPLUS
DN 95:40816
TI Cellulase formation by molds grown on cellulose-containing substrates
AU Okunev, O. N.; Bilai, T. I.; Musich, E. G.; Golovlev, E. L.
CS Inst. Biochem. Physiol. Microorg., Pushchino, USSR
SO Prikladnaya Biokhimiya i Mikrobiologiya (1981), 17(3), 408-14
CODEN: PBMIK; ISSN: 0555-1099
DT Journal
LA Russian

L4 ANSWER 35 OF 40 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AN 1983:52193 BIOSIS
DN PREV198324052193; BR24:52193
TI ***CELLULASE*** OF THE THERMOPHILIC FUNGUS ***THIELAVIA***
-TERRESTRIS PRODUCTION AND CHARACTERIZATION.
AU ZITOMER S W [Reprint author]; MONTENECOURT B S; EVELEIGH D E
CS DEP BIOCHEM AND MICROBIOL, RUTGERS UNIV, NEW BRUNSWICK, NJ, USA
SO Bulletin New Jersey Academy of Science, (1981) Vol. 26, No. 2, pp. 62.
Meeting Info.: 26TH ANNUAL MEETING OF THE NEW JERSEY ACADEMY OF SCIENCE
AND AFFILIATED SOCIETIES, MAR. 28, 1981. BULL N J ACAD SCI.
ISSN: 0028-5455.
DT Conference; (Meeting)
FS BR
LA ENGLISH

L4 ANSWER 36 OF 40 NTIS COPYRIGHT 2004 NTIS on STN
AN 1981(45):04069 NTIS Order Number: PB81-167058/XAB
TI Biosources Digest, Journal on Biomass Utilization, Volume 2, Number 4.
AU Sobel, H.
CS NEUS, Inc., Santa Monica, CA.
Sponsor: National Science Foundation, Washington, DC. Engineering and
Applied Science. (063204000)
NR PB81-167058/XAB; NSF/RA-800383
58p; Oct 1980
NC Contract(s): NSF-PFR77-12500
DT Report
CY United States
LA English
NTE See also Volume 2, Number 2, PB80-210214.
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email at orders@ntis.gov. NTIS is located at 5285 Port Royal Road,
Springfield, VA, 22161, USA.
NTIS Prices: PC A04/MF A01
OS GRA&I8114

L4 ANSWER 37 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 13
AN 1980:636959 HCAPLUS
DN 93:236959
TI ***Cellulase*** enzymes from ***Thielavia*** terrestris
IN skinner, wilfred Aubrey; Takenishi, Shigeyuki
PA SRI International, USA
SO Ger. Offen., 20 pp.
CODEN: GWXXBX
DT Patent
LA German
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 3013627	A1	19801016	DE 1980-3013627	19800409
	US 4243752	A	19810106	US 1979-28500	19790409
	GB 2047710	A	19801203	GB 1980-11627	19800408
	GB 2047710	B2	19830803		
	FI 8001137	A	19801010	FI 1980-1137	19800409
	FI 69484	B	19851031		
	FI 69484	C	19960210		
	FR 2453895	A1	19801107	FR 1980-8021	19800409
	JP 55144886	A2	19801112	JP 1980-45776	19800409
	JP 57033947	B4	19820720		
	CA 1143683	A1	19830329	CA 1980-349464	19800409
PRAI	US 1979-28500		19790409		

L4 ANSWER 38 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 1979:591379 HCAPLUS
 DN 91:191379
 TI Enzyme and its production
 IN Skinner, Wilfred Aubrey; Tokuyama, Fumitake
 PA SRI International, USA
 SO Brit., 8 pp.
 CODEN: BRXXAA
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	GB 1546544	A	19790411	GB 1977-6943	19770218
PRAI	GB 1977-6943		19770218		

L4 ANSWER 39 OF 40 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
 AN 79:387537 SCISEARCH
 GA The Genuine Article (R) Number: HJ685
 TI ACTIVITY PROFILES OF THE THERMSTABLE ***CELLULASE*** OF
 THIELAVIA -TERRESTRIS
 AU TUSE D (Reprint); CHOU T; MASON B J; SKINNER W A
 CS SRI INT, MENLO PK, CA, 94025
 CYA USA
 SO ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY, (1979) Vol. 1979,
 No. SEP, pp. 23.
 DT Conference; Journal
 LA ENGLISH
 REC No References

L4 ANSWER 40 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 14
 AN 1978:440886 HCAPLUS
 DN 89:40886
 TI ***Cellulase*** by a thermophilic ***thielavia*** terrestris
 IN Skinner, Wilfred A.; Tokuyama, Fumitake
 PA Stanford Research Institute, USA
 SO U.S., 6 pp.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4081328	A	19780328	US 1976-721535	19760908
	CA 1075181	A1	19800408	CA 1977-269561	19770112
	JP 58011195	B4	19830301	JP 1977-8272	19770129
PRAI	US 1975-624865		19751023		
	US 1976-721535		19760908		

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FILE 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCAPLUS,
 NTIS, ESBIODBASE, BIOTECHNO, WPIDS' ENTERED AT 21:28:32 ON 02 JUL 2004

L1 745 S THIELAVIA
 L2 52 S L1 (5A)(ENDOGLUCANASE OR CELLULASE)
 L3 69 S L1 (10A)(ENDOGLUCANASE OR CELLULASE)
 L4 40 DUP REM L3 (29 DUPLICATES REMOVED)

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	DB=PGPB,USPT,USOC,EPAB,JPAB; PLUR=YES; OP=-ADJ		
<input type="checkbox"/>	L8	6001639	7
<input type="checkbox"/>	L7	4081328.pn.	1
<input type="checkbox"/>	L6	4435307.pn.	2
<input type="checkbox"/>	L5	4435307	683
<input type="checkbox"/>	L4	L2 and thielavia	4
<input type="checkbox"/>	L3	L2 with thielavia	0
<input type="checkbox"/>	L2	L1 with (endoglucanase or cellulase)	161
<input type="checkbox"/>	L1	detergent with pH	10707

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☐ 1. Document ID: US 20030092097 A1

Using default format because multiple data bases are involved.

L3: Entry 1 of 8

File: PGPB

May 15, 2003

PGPUB-DOCUMENT-NUMBER: 20030092097
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030092097 A1

TITLE: CELLULASE VARIANTS

PUBLICATION-DATE: May 15, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
ANDERSEN, KIM VILBOUR	COPENHAGEN		DK	
SCHULEIN, MARTIN	COPENHAGEN		DK	
CHRISTIANSEN, LARS	VIRUM		DK	
DAMGAARD, BO	LAUSANNE		CH	
VON DER OSTEN, CLAUD	LYNGBY		DK	

US-CL-CURRENT: [435/69.1](#); [435/195](#), [435/200](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RULE-47	Drawings
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☐ 2. Document ID: US 20030054539 A1

L3: Entry 2 of 8

File: PGPB

Mar 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030054539
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030054539 A1

TITLE: Endoglucanases

PUBLICATION-DATE: March 20, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Schulein, Martin	Copenhagen		DK	
Dela, Hanne	Copenhagen		DK	
Andersen, Lene Nonboe	Allerod		DK	

h e b b g e e f e ef b e

Lassen, Soren Flensted	Kobenhavn N	DK
Kauppinen, Markus Sakari	Kobenhavn N	DK
Lange, Lene	Valby	DK
Nielsen, Ruby Ilum	Farum	DK
Takagi, Shinobu	Ichikawa-shi	JP
Ihara, Michiko	Chiba-shi	JP

US-CL-CURRENT: 435/263; 435/210

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 3. Document ID: US 6425975 B1

L3: Entry 3 of 8

File: USPT

Jul 30, 2002

US-PAT-NO: 6425975

DOCUMENT-IDENTIFIER: US 6425975 B1

TITLE: Process for concentrating soluble and colloidal substances in process waters

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 4. Document ID: US 6387690 B1

L3: Entry 4 of 8

File: USPT

May 14, 2002

US-PAT-NO: 6387690

DOCUMENT-IDENTIFIER: US 6387690 B1

TITLE: Endoglucanases

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 5. Document ID: US 6270968 B1

L3: Entry 5 of 8

File: USPT

Aug 7, 2001

US-PAT-NO: 6270968

DOCUMENT-IDENTIFIER: US 6270968 B1

TITLE: Method of providing a hybrid polypeptide exhibiting an activity of interest

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 6. Document ID: US 6146428 A

L3: Entry 6 of 8

File: USPT

Nov 14, 2000

h e b b g e e f e ef b e

US-PAT-NO: 6146428

DOCUMENT-IDENTIFIER: US 6146428 A

TITLE: Enzymatic treatment of denim

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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☐ 7. Document ID: US 6001639 A

L3: Entry 7 of 8

File: USPT

Dec 14, 1999

US-PAT-NO: 6001639

DOCUMENT-IDENTIFIER: US 6001639 A

**** See image for Certificate of Correction ****

TITLE: Endoglucanases

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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☐ 8. Document ID: US 5958082 A

L3: Entry 8 of 8

File: USPT

Sep 28, 1999

US-PAT-NO: 5958082

DOCUMENT-IDENTIFIER: US 5958082 A

TITLE: Garments with considerable variation in abrasion level

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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Terms	Documents
endoglucanase with thielavia	8

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Search Results - Record(s) 1 through 6 of 6 returned.

☐ 1. Document ID: US 20030092097 A1

Using default format because multiple data bases are involved.

L4: Entry 1 of 6

File: PGPB

May 15, 2003

PGPUB-DOCUMENT-NUMBER: 20030092097
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030092097 A1

TITLE: CELLULASE VARIANTS

PUBLICATION-DATE: May 15, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
ANDERSEN, KIM VILBOUR	COPENHAGEN		DK	
SCHULEIN, MARTIN	COPENHAGEN		DK	
CHRISTIANSEN, LARS	VIRUM		DK	
DAMGAARD, BO	LAUSANNE		CH	
VON DER OSTEN, CLAUS	LYNGBY		DK	

US-CL-CURRENT: [435/69.1](#); [435/195](#), [435/200](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	NUMC	Draw Data
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☐ 2. Document ID: US 20030054539 A1

L4: Entry 2 of 6

File: PGPB

Mar 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030054539
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030054539 A1

TITLE: Endoglucanases

PUBLICATION-DATE: March 20, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Schulein, Martin	Copenhagen		DK	
Dela, Hanne	Copenhagen		DK	
Andersen, Lene Nonboe	Allerod		DK	

h e b b g e e e f e ef b e

Lassen, Soren Flensted	Kobenhavn N	DK
Kauppinen, Markus Sakari	Kobenhavn N	DK
Lange, Lene	Valby	DK
Nielsen, Ruby Ilum	Farum	DK
Takagi, Shinobu	Ichikawa-shi	JP
Ihara, Michiko	Chiba-shi	JP

US-CL-CURRENT: 435/263; 435/210

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWAC	Draw D
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☐ 3. Document ID: US 6425975 B1

L4: Entry 3 of 6

File: USPT

Jul 30, 2002

US-PAT-NO: 6425975

DOCUMENT-IDENTIFIER: US 6425975 B1

TITLE: Process for concentrating soluble and colloidal substances in process waters

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWAC	Draw D
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☐ 4. Document ID: US 6270968 B1

L4: Entry 4 of 6

File: USPT

Aug 7, 2001

US-PAT-NO: 6270968

DOCUMENT-IDENTIFIER: US 6270968 B1

TITLE: Method of providing a hybrid polypeptide exhibiting an activity of interest

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWAC	Draw D
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☐ 5. Document ID: US 6146428 A

L4: Entry 5 of 6

File: USPT

Nov 14, 2000

US-PAT-NO: 6146428

DOCUMENT-IDENTIFIER: US 6146428 A

TITLE: Enzymatic treatment of denim

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWAC	Draw D
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☐ 6. Document ID: US 5958082 A

L4: Entry 6 of 6

File: USPT

Sep 28, 1999

US-PAT-NO: 5958082

DOCUMENT-IDENTIFIER: US 5958082 A

TITLE: Garments with considerable variation in abrasion level

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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Terms	Documents
L3 not L1	6

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L4: Entry 2 of 4

File: USPT

Apr 20, 2004

DOCUMENT-IDENTIFIER: US 6723549 B2

TITLE: Cellulases, the genes encoding them and uses thereof

Brief Summary Text (14):

While it has become popular to use cellulases in the textile industry, simply changing the cellulase mixture that is used may produce a different finish. These problems have focused increasing attention on the search for reproducible mixtures of cellulases with desired properties. Thus there is a clear demand especially in the textile and detergent industry for novel cellulases active at neutral and alkaline pH values, not compromising the strength of fabrics, with good cleaning and/or fabric care and harshness reducing properties.

Detailed Description Text (4):

ALKO4237, Melanocarpus albomyces (=Myriococcum albomyces=Thielavia albomyces; Guarro et al., 1996, Mycol. Res. 100(1):75.) was deposited as CBS 685.95 on Oct. 11, 1995, at the Centraalbureau voor Schimmelcultures, P.O. Box 273, 3740 AG BAARN.

Detailed Description Paragraph Table (19):

TABLE XVIII Softness, weight loss and visual appearance of the aged fleecy knits after 1 to 3 repeated washing times with or without cellulases in detergents. Before washings pH of the 0.25% Color Detergent Solution was 7.9. enzyme visual dosage as pH appearance mg protein/ washing after weight right preparation g fabric times washings loss % softness side reverse -- -- 1 ND 0 1 1 ALKO4237 20 1 ND 0.61 100%: no difference 1 1.5 20 K* 5 1 ND 0 100%: no difference 1.5 1.5 -- -- 2 7.9 0.10 1 1 20 K* 5 2 7.7 0.46 100%: softer with cellulase 2.5 2.2 50 K* 5 2 7.7 0.26 100%: no difference 1 1.2 50 K* 15 2 7.3 0.49 100%: no difference 1 1.3 -- -- 3 ND 0.31 1 1 20 K* 5 3 ND 0.88 100%: softer with cellulase 3.0 2.2 ND = not determined
*= 20 K- or 50 K-cellulase

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L4: Entry 3 of 4

File: USPT

Feb 13, 2001

DOCUMENT-IDENTIFIER: US 6187740 B1

**** See image for Certificate of Correction ****

TITLE: Alkaline detergent compositions comprising a specific cellulase

Brief Summary Text (2):

The present invention relates to granular bleach-containing laundry detergent compositions comprising a specific cellulase and having a 1% solution pH between 7.5 and 10.

Brief Summary Text (7):

EP-A-0 269 168 discloses optimized detergent compositions containing cellulase, which are formulated at a mild alkaline pH range and provide combined fabric cleaning, fabric softening, and fabric care performance.

Brief Summary Text (11):

Current granular bleach-containing laundry detergent compositions possess a pH 1% solution of about 10.5 allowing maximum bleach performance via optimum perhydrolysis obtained at said pH. The cleaning performance of such bleach-containing laundry detergent compositions is known to diminish with the reduction of pH. A lower pH is nevertheless necessary to obtain full enzymatic performance of cellulase containing detergents.

Brief Summary Text (13):

It has been surprisingly found that granular bleach-containing laundry detergent compositions comprising a specific cellulase and having a 1% solution pH between 7.5 and 10, provide optimum cleaning and whiteness performance benefits.

Brief Summary Text (16):

The present invention relates to granular bleach-containing laundry detergent compositions comprising a specific cellulase and having a 1% solution pH between 7.5 and 10, thereby providing superior cleaning and whiteness performance benefit.

Brief Summary Text (21):

It has been surprisingly found that granular bleach-containing laundry detergent compositions comprising a specific cellulase and having a 1% solution pH between 7.5 and 10, provide optimum cleaning and whiteness performance benefits.

Brief Summary Text (28):

Other suitable cellulases are the EGIII from *Trichoderma longibrachiatum* described in WO94/21801, Genencor, published Sep. 29, 1994. More preferred cellulase for the laundry detergent compositions of the present invention is a cellulase derived from *Trichoderma* spp, having an approximate molecular weight between 22 and 27 kDa, an isoelectric point between 7.2 and 8.0 and a pH optimum between 5.5 and 6.0.

Brief Summary Text (179):

The other cellulases usable in the present invention include both bacterial or fungal cellulases. Preferably, they will have a pH optimum of between 5 and 12 and an activity above 50 CEVU (Cellulose Viscosity Unit). Suitable cellulases are disclosed in U.S. Pat. No. 4,435,307, Barbesgoard et al, J61078384 and WO96/02653 which discloses fungal cellulase produced respectively from *Humicola insolens*,

Trichoderma, Thielavia and Sporotrichum. EP 739 982 describes cellulases isolated from novel Bacillus species. Suitable cellulases are also disclosed in GB-A-2.075.028; GB-A-2.095.275; DE-OS-2.247.832 and WO95/26398.

CLAIMS:

1. A granular bleach-containing laundry detergent composition having a 1% solution pH between about 7.5 and 10 comprising a fungal cellulase, having an optimum pH ranging from about 4 to about 10 and no cellulose binding domain and wherein said cellulase is further characterised by exhibiting the following properties:

- (a) derived from Trichoderma spp;
- (b) approximate molecular weight between 22 and 27 kDa;
- (c) iso-electric point between about 7.2 and about 8.0; and
- (d) pH optimum between about 5.5 and about 6.0.

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